

9. Additional Requirements: None
10. Additional Information: See attached proposal.

Signature: Wm. E. Thompson
Director of Project

D. D. Bilts
Business Officer of Institution

1003541600

Committee:
Cattell
Bing
Wilson

#277

TOBACCO INDUSTRY RESEARCH COMMITTEE

150 East Forty Second Street New York 17, N.Y.

Application for Research Grant

Date: May 13, 1960

1. Name of Investigator: Herbert C. McKee, Ph.D.
2. Title: Manager, Industrial Pollution and Analytical Research
3. Institution & Address: Southwest Research Institute
8500 Culebra Road
San Antonio 6, Texas
4. Project or Subject: Changes in Body Chemistry Resulting from Smoking.
5. Detailed Plan of Procedure:

In the development of analytical methods to measure trace constituents of body fluids, it was noticed that one compound appeared in urine and breath samples of smokers, but not in non-smokers. This compound has tentatively been identified as acetonitrile.

In the proposed investigation, additional tests will be conducted to confirm this preliminary observation. Urine samples will be analyzed from approximately 60 subjects, divided into three groups: (1) non-smokers, (2) light to moderate smokers, and (3) heavy smokers. Data will be obtained on all trace constituents which are measured by the present procedures. Statistical analysis of the data will then be performed to determine whether the presence of acetonitrile does correlate with smoking, and to see if a correlation exists between any of the other compounds measured and the smoking habits of the subjects.

Additional details are given in the attached proposal. (Only two copies furnished. Committee members see R.C.H.)

6. Budget Plan:

See proposal for Contractual	Salaries	2,500.
Information and additional	Expendable Supplies	400.
details on cost calculation.	Permanent Equipment	-
	Surcharge	2,500.
	Other Services	180.
	Total	\$5,580.

7. Anticipated Duration of Work: Six months.
8. Facilities and Staff Available: See attached proposal.

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